

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--------------------|------------------|---------|------------------|
| L1 | 441 | hamann.in. | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:00 |
| L4 | 10 | "hamann ernst-michael".in. | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:03 |
| L6 | 4 | "kreyss jutta".in. | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:04 |
| L8 | 7 | "vasudevan narayanan".in. | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:05 |
| L11 | 19 | ("hamann ernst-michael".in. "kreyss jutta".in. "vasudevan narayanan".in.) | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:13 |
| L12 | 7 | ("vasudevan narayanan".in.) | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:12 |
| L13 | 3 | 11 and (digital adj signature).clm. | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:20 |
| L16 | 123 | 713/180 and (digital adj signature).clm. | US-PGPUB; USPAT | OR | OFF | 2006/03/31 18:29 |
| L19 | 34 | 713/180 and (digital adj signature).clm. | US-PGPUB | OR | OFF | 2006/03/31 18:29 |
| S5 | 72 | 713/180.ccls. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2003/10/24 13:51 |
| S7 | 2 | 713/180.ccls. and (generat\$4 with digital with signature) and (signature adj counter) | USPAT | OR | OFF | 2003/10/24 13:52 |
| S8 | 16 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) | USPAT | OR | OFF | 2003/10/24 13:52 |
| S10 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (chip\$4) | USPAT | OR | OFF | 2003/10/24 13:53 |
| S12 | 1 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (card) | USPAT | OR | OFF | 2003/10/24 13:53 |
| S14 | 3 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) and (encrypt\$4) | USPAT | OR | OFF | 2003/10/24 15:12 |
| S15 | 8 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) | USPAT | OR | OFF | 2004/12/12 16:11 |
| S16 | 0 | chipcard with digital adj signature.ti. | USPAT | OR | OFF | 2004/12/12 16:50 |
| S17 | 2 | chipcard with digital adj signature | USPAT | OR | OFF | 2004/12/12 16:11 |

EAST Search History

| | | | | | | |
|-----|------|---|------------------------------|----|-----|------------------|
| S18 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2004/12/12 16:21 |
| S19 | 1 | ("4825052").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2004/12/12 16:22 |
| S21 | 38 | ("4825052").URPN. | USPAT | OR | ON | 2004/12/22 12:35 |
| S22 | 18 | S21 and digital adj signature | USPAT | OR | ON | 2004/12/12 16:29 |
| S23 | 0 | chipcard with (digital adj signature) with document | USPAT | OR | ON | 2004/12/12 16:31 |
| S24 | 1 | chipcard with (digital adj signature) and document | USPAT | OR | ON | 2004/12/12 16:31 |
| S25 | 0 | ("6076162").URPN. | USPAT | OR | ON | 2004/12/12 16:32 |
| S26 | 8 | ("5293029" "5541994" "5659616" "5717759" "5721781" "5768389" "5781723" "5805712").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2004/12/12 16:32 |
| S27 | 8 | ("5768389").URPN. | USPAT | OR | ON | 2004/12/12 16:38 |
| S28 | 45 | ("5805712").URPN. | USPAT | OR | ON | 2004/12/12 16:43 |
| S29 | 0 | (chipcard IC smart semi\$9) adj (card drive) with digital adj signature with document.ti. | USPAT | OR | OFF | 2004/12/12 16:52 |
| S30 | 0 | (chipcard IC smart semi\$9) adj (card drive) with digital adj signature with document.ab. | USPAT | OR | OFF | 2004/12/12 16:52 |
| S31 | 4 | (chipcard IC smart semi\$9) adj (card drive) with digital adj signature with document | USPAT | OR | OFF | 2004/12/22 12:44 |
| S32 | 0 | in adj situ with digital adj signature | USPAT | OR | ON | 2004/12/22 12:36 |
| S33 | 0 | in near2 situ with digital adj signature | USPAT | OR | ON | 2004/12/22 12:36 |
| S34 | 0 | chipcard with (without adj external) with (digital adj signature) | USPAT | OR | ON | 2004/12/22 12:39 |
| S36 | 0 | chipcard with external with (digital adj signature) | USPAT | OR | ON | 2004/12/22 12:40 |
| S37 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT | OR | ON | 2004/12/22 12:40 |
| S38 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:41 |
| S39 | 0 | chipcard and dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:41 |
| S40 | 0 | chipcard and dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:41 |
| S41 | 7 | dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:42 |
| S42 | 4245 | (chipcard chip-card (chip adj card) (chip near1 card)) | USPAT; EPO | OR | ON | 2004/12/22 12:43 |

EAST Search History

| | | | | | | |
|-----|-----|--|-------|----|-----|------------------|
| S43 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2004/12/22 12:50 |
| S44 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) ((IC smart semi\$9) adj (card derive))) with digital adj signature with document | USPAT | OR | OFF | 2004/12/22 12:53 |
| S45 | 90 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature | USPAT | OR | OFF | 2004/12/22 12:52 |
| S49 | 90 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with digital adj signature | USPAT | OR | OFF | 2004/12/22 12:55 |
| S50 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with external adj digital adj signature | USPAT | OR | OFF | 2004/12/22 12:54 |
| S52 | 6 | (chipcard chip-card (chip adj card) (chip near1 card)) with digital adj signature | USPAT | OR | OFF | 2004/12/22 12:56 |
| S53 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2004/12/22 16:54 |
| S54 | 19 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2004/12/22 16:49 |
| S55 | 9 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature and document | USPAT | OR | OFF | 2004/12/22 16:33 |
| S56 | 10 | S54 not S55 | USPAT | OR | OFF | 2004/12/22 16:52 |
| S57 | 1 | (embed\$4 stor\$3) near1 digital adj signature.ti. | USPAT | OR | OFF | 2004/12/22 16:53 |
| S58 | 124 | (embed\$4 stor\$3) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 16:55 |
| S59 | 2 | S58 and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2004/12/22 16:55 |
| S60 | 2 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2004/12/22 17:04 |

EAST Search History

| | | | | | | |
|-----|-------|--|-------|----|-----|------------------|
| S61 | 28 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and document | USPAT | OR | OFF | 2004/12/22 17:12 |
| S62 | 0 | (embed\$4 stored) near1 digital adj signature with ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2004/12/22 17:13 |
| S63 | 27 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2004/12/22 17:25 |
| S64 | 27 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9 signature adj device) | USPAT | OR | OFF | 2004/12/22 17:44 |
| S65 | 79918 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) | USPAT | OR | OFF | 2004/12/22 18:03 |
| S66 | 0 | S65 with (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:02 |
| S67 | 0 | S65 near5 (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:02 |
| S68 | 2 | S65 and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:03 |
| S69 | 2 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:04 |
| S70 | 79 | (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:04 |
| S75 | 85 | 713/180.ccls. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2005/06/30 11:03 |
| S77 | 2 | 713/180.ccls. and (generat\$4 with digital with signature) and (signature adj counter) | USPAT | OR | OFF | 2005/06/30 11:03 |
| S78 | 18 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) | USPAT | OR | OFF | 2005/06/30 12:35 |
| S82 | 1 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (card) | USPAT | OR | OFF | 2005/06/30 11:03 |
| S83 | 6 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) | USPAT | OR | OFF | 2005/06/30 11:03 |

EAST Search History

| | | | | | | |
|------|----|---|------------------------------|----|-----|------------------|
| S84 | 3 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) and (encrypt\$4) | USPAT | OR | OFF | 2005/06/30 11:03 |
| S85 | 9 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) | USPAT | OR | OFF | 2005/06/30 11:03 |
| S86 | 0 | chipcard with digital adj signature.ti. | USPAT | OR | OFF | 2005/06/30 11:03 |
| S87 | 3 | chipcard with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:03 |
| S88 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2005/06/30 11:03 |
| S89 | 1 | ("4825052").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/30 11:03 |
| S90 | 41 | ("4825052").URPN. | USPAT | OR | ON | 2005/06/30 11:03 |
| S91 | 19 | S90 and digital adj signature | USPAT | OR | ON | 2005/06/30 11:03 |
| S92 | 0 | chipcard with (digital adj signature) with document | USPAT | OR | ON | 2005/06/30 11:03 |
| S93 | 1 | chipcard with (digital adj signature) and document | USPAT | OR | ON | 2005/06/30 11:04 |
| S94 | 0 | ("6076162").URPN. | USPAT | OR | ON | 2005/06/30 11:04 |
| S95 | 8 | ("5293029" "5541994" "5659616" "5717759" "5721781" "5768389" "5781723" "5805712").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/30 11:04 |
| S96 | 10 | ("5768389").URPN. | USPAT | OR | ON | 2005/06/30 11:04 |
| S97 | 49 | ("5805712").URPN. | USPAT | OR | ON | 2005/06/30 11:04 |
| S98 | 0 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document.ti. | USPAT | OR | OFF | 2005/06/30 11:04 |
| S99 | 0 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document.ab. | USPAT | OR | OFF | 2005/06/30 11:04 |
| S100 | 4 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| S101 | 0 | in adj situ with digital adj signature | USPAT | OR | ON | 2005/06/30 11:04 |
| S102 | 0 | in near2 situ with digital adj signature | USPAT | OR | ON | 2005/06/30 11:04 |
| S103 | 0 | chipcard with (without adj external) with (digital adj signature) | USPAT | OR | ON | 2005/06/30 11:04 |
| S104 | 0 | chipcard with external with (digital adj signature) | USPAT | OR | ON | 2005/06/30 11:04 |

EAST Search History

| | | | | | | |
|----------|------|--|---------------|----|-----|------------------|
| S10 5 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT | OR | ON | 2005/06/30 11:04 |
| S10 6 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| S10 7 | 0 | chipcard and dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| S10 8 | 0 | chipcard and dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| S10 9 | 8 | dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| S11 0 | 4475 | (chipcard chip-card (chip adj card) (chip near1 card)) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| S11 1 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) ((IC smart semi\$9) adj (card derive))) with digital adj signature with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| S11 2 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2005/06/30 12:52 |
| S11 3 | 99 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S11 4 | 99 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S11 5 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with external adj digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S11 6 | 9 | (chipcard chip-card (chip adj card) (chip near1 card)) with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S11 7 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S11 8 | 20 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S11 9 | 9 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature and document | USPAT | OR | OFF | 2005/06/30 11:04 |

EAST Search History

| | | | | | | |
|----------|-------|--|-------|----|-----|------------------|
| S12 0 | 11 | S118 not S119 | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 1 | 1 | (embed\$4 stor\$3) near1 digital adj signature.ti. | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 2 | 132 | (embed\$4 stor\$3) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 12:39 |
| S12 3 | 3 | S122 and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 4 | 3 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 5 | 29 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and document | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 6 | 0 | (embed\$4 stored) near1 digital adj signature with ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 7 | 30 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 8 | 30 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9 signature adj device) | USPAT | OR | OFF | 2005/06/30 11:04 |
| S12 9 | 84251 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) | USPAT | OR | OFF | 2005/06/30 11:04 |
| S13 0 | 0 | S129 with (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S13 1 | 0 | S129 near5 (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S13 2 | 4 | S129 and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S13 3 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S13 4 | 85 | (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| S13 5 | 1 | "6662151".pn. | USPAT | OR | ON | 2005/06/30 11:38 |

EAST Search History

| | | | | | | |
|----------|----|---|------------------------------|----|-----|------------------|
| S13 6 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2005/11/16 13:44 |
| S14 1 | 96 | 713/180.ccls. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S14 2 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (procur\$4) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S14 3 | 2 | 713/180.ccls. and (generat\$4 with digital with signature) and (signature adj counter) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S14 4 | 20 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S14 8 | 1 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (card) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S14 9 | 7 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S15 0 | 4 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) and (encrypt\$4) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S15 1 | 10 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S15 2 | 0 | chipcard with digital adj signature.ti. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S15 3 | 3 | chipcard with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S15 4 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S15 5 | 1 | ("4825052").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 12:25 |
| S15 6 | 43 | ("4825052").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S15 7 | 19 | S156 and digital adj signature | USPAT | OR | ON | 2005/12/20 12:25 |
| S15 8 | 0 | chipcard with (digital adj signature) with document | USPAT | OR | ON | 2005/12/20 12:25 |
| S15 9 | 1 | chipcard with (digital adj signature) and document | USPAT | OR | ON | 2005/12/20 12:25 |
| S16 0 | 0 | ("6076162").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |

EAST Search History

| | | | | | | |
|----------|------|--|------------------------------|----|-----|------------------|
| S16 1 | 8 | ("5293029" "5541994" "5659616" "5717759" "5721781" "5768389" "5781723" "5805712").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 12:25 |
| S16 2 | 11 | ("5768389").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S16 3 | 54 | ("5805712").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S16 4 | 0 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document.ti. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S16 5 | 0 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document.ab. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S16 6 | 4 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S16 7 | 0 | in adj situ with digital adj signature | USPAT | OR | ON | 2005/12/20 12:25 |
| S16 8 | 0 | in near2 situ with digital adj signature | USPAT | OR | ON | 2005/12/20 12:25 |
| S16 9 | 0 | chipcard with (without adj external) with (digital adj signature) | USPAT | OR | ON | 2005/12/20 12:25 |
| S17 0 | 0 | chipcard with external with (digital adj signature) | USPAT | OR | ON | 2005/12/20 12:25 |
| S17 1 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT | OR | ON | 2005/12/20 12:25 |
| S17 2 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S17 3 | 0 | chipcard and dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S17 4 | 0 | chipcard and dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S17 5 | 10 | dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S17 6 | 4647 | (chipcard chip-card (chip adj card) (chip near1 card)) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S17 7 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) ((IC smart semi\$9) adj (card derive))) with digital adj signature with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S17 8 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvive) with digital adj signature with document | USPAT | OR | OFF | 2005/12/20 12:25 |

EAST Search History

| | | | | | | |
|----------|-----|---|-------|----|-----|------------------|
| S17 9 | 106 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 0 | 106 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 1 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with external adj digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 2 | 9 | (chipcard chip-card (chip adj card) (chip near1 card)) with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 3 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 4 | 22 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 5 | 10 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature and document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 6 | 12 | S184 not S185 | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 7 | 1 | (embed\$4 stor\$3) near1 digital adj signature.ti. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 8 | 146 | (embed\$4 stor\$3) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S18 9 | 3 | S188 and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 0 | 3 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 1 | 32 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 2 | 0 | (embed\$4 stored) near1 digital adj signature with ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/12/20 12:25 |

EAST Search History

| | | | | | | |
|----------|-------|--|-------|----|-----|------------------|
| S19 3 | 33 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 4 | 33 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9 signature adj device) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 5 | 87528 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 6 | 0 | S195 with (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 7 | 0 | S195 near5 (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 8 | 5 | S195 and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S19 9 | 5 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 0 | 91 | (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 1 | 0 | 713/180.clas. and (generat\$4 with digital with signature) and (procur\$4 same counter) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 2 | 0 | 713/180.clas. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 3 | 0 | 713/180.clas. and (generat\$4 same digital same signature) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 4 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (procur\$4 same counter) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 5 | 96 | 713/180.ccls. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 6 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (procur\$4) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 7 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (chipcard) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S20 8 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (chip\$4) | USPAT | OR | OFF | 2005/12/20 12:25 |

EAST Search History

| | | | | | | |
|----------|------|--|---------------|----|-----|------------------|
| S20 9 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (chip) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S21 0 | 0 | chipcard with digital adj signature.ti. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S21 1 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S21 2 | 0 | chipcard with (digital adj signature) with document | USPAT | OR | ON | 2005/12/20 12:25 |
| S21 3 | 0 | ("6076162").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S21 4 | 0 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document.ti. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S21 5 | 0 | (chipcard IC smart semi\$9) adj (card dvive) with digital adj signature with document.ab. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S21 6 | 0 | in adj situ with digital adj signature | USPAT | OR | ON | 2005/12/20 12:25 |
| S21 7 | 0 | in near2 situ with digital adj signature | USPAT | OR | ON | 2005/12/20 12:25 |
| S21 8 | 0 | chipcard with (without adj external) with (digital adj signature) | USPAT | OR | ON | 2005/12/20 12:25 |
| S21 9 | 0 | chipcard with external with (digital adj signature) | USPAT | OR | ON | 2005/12/20 12:25 |
| S22 0 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT | OR | ON | 2005/12/20 12:25 |
| S22 1 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S22 2 | 0 | chipcard and dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S22 3 | 0 | chipcard and dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S22 4 | 4647 | (chipcard chip-card (chip adj card) (chip near1 card)) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S22 5 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with external adj digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S22 6 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |

EAST Search History

| | | | | | | |
|----------|-------|---|------------------------------|----|-----|------------------|
| S22 7 | 0 | (embed\$4 stored) near1 digital adj signature with ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S22 8 | 87528 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S22 9 | 0 | S228 with (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 0 | 0 | S228 near5 (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 1 | 1 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (card) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 2 | 1 | ("4825052").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 12:25 |
| S23 3 | 1 | chipcard with (digital adj signature) and document | USPAT | OR | ON | 2005/12/20 12:25 |
| S23 4 | 1 | (embed\$4 stor\$3) near1 digital adj signature.ti. | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 5 | 2 | 713/180.ccls. and (generat\$4 with digital with signature) and (signature adj counter) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 6 | 7 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 7 | 4 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) and (encrypt\$4) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 8 | 10 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S23 9 | 3 | chipcard with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S24 0 | 43 | ("4825052").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S24 1 | 19 | S240 and digital adj signature | USPAT | OR | ON | 2005/12/20 12:25 |
| S24 2 | 8 | ("5293029" "5541994" "5659616" "5717759" "5721781" "5768389" "5781723" "5805712").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 12:25 |

EAST Search History

| | | | | | | |
|----------|-----|--|---------------|----|-----|------------------|
| S24 3 | 11 | ("5768389").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S24 4 | 54 | ("5805712").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S24 5 | 4 | (chipcard IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S24 6 | 10 | dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/12/20 12:25 |
| S24 7 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) ((IC smart semi\$9) adj (card derive))) with digital adj signature with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S24 8 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S24 9 | 106 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 0 | 106 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 1 | 9 | (chipcard chip-card (chip adj card) (chip near1 card)) with digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 2 | 22 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 3 | 10 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature and document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 4 | 12 | S252 not S253 | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 5 | 146 | (embed\$4 stor\$3) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 6 | 3 | S255 and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 7 | 3 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/12/20 12:25 |

EAST Search History

| | | | | | | |
|----------|-----|--|-------|----|-----|------------------|
| S25 8 | 32 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and document | USPAT | OR | OFF | 2005/12/20 12:25 |
| S25 9 | 33 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S26 0 | 33 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9 signature adj device) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S26 1 | 5 | S228 and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S26 2 | 5 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S26 3 | 91 | (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S26 4 | 1 | "6662151".pn. | USPAT | OR | ON | 2005/12/20 12:25 |
| S26 5 | 20 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) | USPAT | OR | OFF | 2005/12/20 12:25 |
| S26 6 | 146 | (embed\$4 stor\$3) near1 digital adj signature | USPAT | OR | OFF | 2005/12/20 12:25 |
| S26 7 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2005/12/20 12:25 |
| S26 8 | 1 | "6662151".pn. | USPAT | OR | ON | 2006/03/30 14:12 |



Welcome United States Patent and Trademark Office

Search Session History

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Edit an existing query or compose a new query in the Search Query Display.

Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Fri, 31 Mar 2006, 8:44:48 PM EST

Search Query Display

Recent Search Queries

- #1 ((digital signature<in>metadata) <and> (device id<in>metadata))<and> (document id<in>metadata)
- #2 (digital signature<and>device id)<and>document id
- #3 (digital signature<and>device id)<and>document id
- #4 (digital signature<and>device identifier)<and>document identifier
- #5 (digital signature<and>device identifier)

Indexed by
 Inspec

[Help](#) [Contact Us](#) [Privacy](#)
© Copyright 2006 IEEE



Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "(digital signature<and>device identifier)"

Your search matched 5 of 1332769 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

e-mail

» Search Options

[View Session History](#)[New Search](#)

Modify Search

(digital signature<and>device identifier)

☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract

» Key

| | |
|----------|----------------------------|
| IEEE JNL | IEEE Journal or Magazine |
| IEE JNL | IEE Journal or Magazine |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF | IEE Conference Proceeding |
| IEEE STD | IEEE Standard |

view selected items [Select All](#) [Deselect All](#)

- ☐ 1. **RFID security and privacy: a research survey**
Juels, A.;
[Selected Areas in Communications, IEEE Journal on](#)
Volume 24, Issue 2, Feb. 2006 Page(s):381 - 394
Digital Object Identifier 10.1109/JSAC.2005.861395
[AbstractPlus](#) | Full Text: [PDF](#)(272 KB) IEEE JNL
[Rights and Permissions](#)
- ☐ 2. **Enforcing policies in pervasive environments**
Patwardhan, A.; Korolev, V.; Kagal, L.; Joshi, A.;
[Mobile and Ubiquitous Systems: Networking and Services, 2004. MOBIQUITOUS 2004. The First /](#)
[Conference on](#)
22-26 Aug. 2004 Page(s):299 - 308
Digital Object Identifier 10.1109/MOBILQ.2004.1331736
[AbstractPlus](#) | Full Text: [PDF](#)(396 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 3. **Personal servers as digital keys**
Beaufour, A.; Bonnet, P.;
[Pervasive Computing and Communications, 2004. PerCom 2004. Proceedings of the Second IEEE](#)
[on](#)
2004 Page(s):319 - 328
Digital Object Identifier 10.1109/PERCOM.2004.1276869
[AbstractPlus](#) | Full Text: [PDF](#)(311 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 4. **Smart card based security for fieldbus systems**
Schwaiger, C.; Treytl, A.;
[Emerging Technologies and Factory Automation, 2003. Proceedings. ETFA '03. IEEE Conference](#)
Volume 1, 16-19 Sept. 2003 Page(s):398 - 406 vol.1
Digital Object Identifier 10.1109/ETFA.2003.1247734
[AbstractPlus](#) | Full Text: [PDF](#)(673 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 5. **Time base modulation: a new approach to watermarking audio**
Foote, J.; Adcock, J.; Girsensohn, A.;
[Multimedia and Expo. 2003. ICME '03. Proceedings, 2003 International Conference on](#)
Volume 1, 6-9 July 2003 Page(s):1 - 221-4 vol.1


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☒ The ACM Digital Library ☐ The Guide


[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

 Terms used digital signature and device id and document id

Found 50,022 of 173,942

Sort results by


[Save results to a Binder](#)
[Try an Advanced Search](#)
[Try this search in The ACM Guide](#)

Display results


[Search Tips](#)
☐ Open results in a new window

Results 1 - 20 of 200

 Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

 Relevance scale ☐ ☐ ☐ ☐ ☐

1 [Archival storage for digital libraries](#)



Arturo Crespo, Hector Garcia-Molina

May 1998

Proceedings of the third ACM conference on Digital libraries

Publisher: ACM Press

 Full text available: [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Fast detection of communication patterns in distributed executions](#)



Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

 Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [National id card: the next generation: The US/Mexico border crossing card \(BCC\): a case study in biometric, machine-readable id](#)



Andrew Schulman

 April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

Publisher: ACM Press

 Full text available: [htm\(187.31 KB\)](#) Additional Information: [full citation](#), [index terms](#)

4 [Authentication and signature schemes: Print signatures for document authentication](#)



Baoshi Zhu, Jiankang Wu, Mohan S. Kankanhalli

 October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM Press

 Full text available: [pdf\(646.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a novel solution for authenticating printed paper documents by utilizing the inherent non--repeatable randomness existing in the printing process. For a document printed by a laser-printer, we extract the unique features of the non--repeatable print content for each copy. The shape profiles of this content are used as the feature to represent the uniqueness of that particular printed copy. These features along with some important document content is then captured as the *print signa ...*

Keywords: *authenticity, laser printer, originality, print signature*

5 Copyrights and access-rights: Experiences with the enforcement of access rights extracted from ODRL-based digital contracts



Susanne Guth, Gustaf Neumann, Mark Strembeck

October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press

Full text available: pdf(241.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present our experiences concerning the enforcement of access rights extracted from ODRL-based digital contracts. We introduce the generalized *Contract Schema* (CoSa) which is an approach to provide a generic representation of contract information on top of rights expression languages. We give an overview of the design and implementation of the xoRELIInterpreter software component. In particular, the xoRELIInterpreter interprets digital contracts that are based on rights exp ...

6 On-line e-wallet system with decentralized credential keepers

Stig Frode Mjøl̂snes, Chunming Rong

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(240.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a generalization of the architecture of an electronic wallet, as first developed in the seminal European research project CAFE. With this model you can leave most of the content of your electronic wallet at the security of your residential electronic keeper, while roaming with your favorite mobile terminals. Emerging mobile handsets with both short range Bluetooth and cellular GPRS communications provide a sufficient communication platform for this electronic wallet architecture. Howe ...

Keywords: digital credentials, e-wallet architecture, mobile commerce, payment protocols, privacy

7 Session 4: Web service applications: Authenticating distributed data using Web services and XML signatures



Daniel J. Polivy, Roberto Tamassia

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Publisher: ACM Press

Full text available: pdf(164.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As the need for digital data becomes more ubiquitous, so does the need to provide efficient mechanisms for distributing and verifying the authenticity of that data. We present an architecture for authenticating responses to queries from untrusted mirrors of authenticated dictionaries using Web Services and XML Signatures. We also describe an implementation of our scheme for the Secure Transaction Management System.

Keywords: Web services, XML, authentication, digital signatures

8 Multimedia document presentation, information extraction, and document formation in



MINOS: a model and a system

S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria

December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(3.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

9 P6: Document-based inter-organizational information exchange



Reinhard Riedl

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available: pdf(217.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present our research work on document services for interstate e-government carried out in the FASME project. First, we depict the background for our research and we describe its basic challenges. Then we discuss the required services out of the perspective of inter-organizational document services and documentation issues. From the evaluations of our prototypical implementation with user groups, we may conclude that interstate e-government services are feasible and that life w ...

Keywords: e-government, inter-organizational work-flows

10 Session 4: innovative solutions: A trusted process to digitally sign a document



Boris Balacheff, Liqun Chen, David Plaquin, Graeme Proudler

September 2001 **Proceedings of the 2001 workshop on New security paradigms**

Publisher: ACM Press

Full text available: pdf(709.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a method of increasing the trust in open computing platforms, such that a person can have confidence in producing a digital signature using open platforms. The process of using a digital signature to sign a digital document is well understood. Most descriptions assume the correctness of the process of signing a document within a computing platform. In an increasing connected world, this assumption is no longer true when open computing platforms are used. This paper proposes t ...

Keywords: TCPA, authenticated image, digital signatures, smart card, trusted display

11 Dealing with server corruption in weakly consistent replicated data systems

Mike J. Spreitzer, Marvin M. Theimer, Karin Petersen, Alan J. Demers, Douglas B. Terry

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(180.10 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

12 A survey and analysis of Electronic Healthcare Record standards



 Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci
December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(844.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms of ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

13 Selectively estimation for Boolean queries



 Zhiyuan Chen, Nick Koudas, Flip Korn, S. Muthukrishnan
May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available:  [pdf\(203.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a variety of applications ranging from optimizing queries on alphanumeric attributes to providing approximate counts of documents containing several query terms, there is an increasing need to quickly and reliably estimate the number of strings (tuples, documents, etc.) matching a Boolean query. Boolean queries in this context consist of substring predicates composed using Boolean operators. While there has been some work in estimating the selectivity of substring queries, the more gener ...

14 Document management: Accommodating paper in document databases



 Majed AbuSafiya, Subhasish Mazumdar
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Publisher: ACM Press


Full text available:  [pdf\(234.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Although the paperless office has been imminent for decades, documents in paper form continue to be used extensively in almost all organizations. Present-day information systems are designed on the premise that any paper document in use will be either converted into electronic form or merely printed from electronic file(s) accessible to the system. Yet, paper is the medium of choice in many situations, mainly owing to its portability and usability, and the medium of necessity in others, espec ...

Keywords: RFID, document databases, document management, enterprise document model, paper documents, paper manifestation

15 Security: Fast authenticated key establishment protocols for self-organizing sensor networks



 Qiang Huang, Johnas Cukier, Hisashi Kobayashi, Bede Liu, Jinyun Zhang
September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available:  pdf(303.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider efficient authenticated key establishment protocols between a sensor and a security manager in a self-organizing sensor network. We propose a hybrid authenticated key establishment scheme, which exploits the difference in capabilities between security managers and sensors, and put the cryptographic burden where the resources are less constrained. The hybrid scheme reduces the high cost public-key operations at the sensor side and replaces them with efficient symmetric- ...

Keywords: elliptic curve cryptography, key establishment, security, sensor network


16 Ubiquitous computing (UC): A Ubiquitous Computing environment for aircraft maintenance



Matthias Lampe, Martin Strassner, Elgar Fleisch

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  pdf(487.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Ubiquitous Computing bears a high potential in the area of aircraft maintenance. Extensive requirements regarding quality, safety, and documentation as well as high costs for having aircrafts idle during maintenance demand for an efficient execution of the process. Major weaknesses that impact the efficiency of the process are an inadequate tool management, human errors, and labour intensive manual documentation and check procedures. In this paper we propose a solution using ubiquitous computing ...

Keywords: aircraft maintenance, asset management, ubiquitous computing

17 KM-4 (knowledge management): distributed knowledge management: Towards smarter documents



Vikas Krishna, Prasad M. Deshpande, Savitha Srinivasan

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available:  pdf(224.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document analysis research typically focuses on document image understanding or classic problems in text classification, clustering, summarization and discovery. While that is an important aspect of document management, in practice, documents lifecycles are often determined by the context of the business process that they are relevant to. It therefore becomes necessary for the document analysis techniques to recognize and leverage the contextual information provided by a supporting schema and ...

Keywords: classification, content, processes, workflow


18 Query processing in a multimedia document system



Elisa Bertino, Fausto Rabbiti, Simon Gibbs

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Query processing in a multimedia document system is described. Multimedia documents

are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

19 Systems: Authorization for digital rights management in the geospatial domain



Andreas Matheus

November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**

Publisher: ACM Press

Full text available: pdf(829.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Since information is available in digital format, the protection of intellectual property and copyright fraud has become an important issue. This is, because the digital content can be copied without quality loss and with a reasonable effort of time, equipment and money. After copying, it can be distributed using the Internet, again with little effort of time and money. In such an environment, the loss of revenue for the music and film industry -- not only due to sites like Napster -- is becomin ...

Keywords: DRM, access control, geoXACML, geospatial

20 Proceedings - only: Towards a real-world wide web



Tim Kindberg, John Barton

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press

Full text available: pdf(39.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

As computer hardware shrinks and lightens and as communications becomes cheaper and more widely available, we have new opportunities for software systems to support *nomadic* users of *ubiquitous* or *pervasive* computing services [16, 24]. We are interested in systems that support interaction with the physical world wherever users happen to be. More and more things in the physical world, such as our cars and domestic appliances, are becoming "smart". Users need a convenient frame ...

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2006 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads: [Adobe Acrobat](#) [QuickTime](#) [Windows Media Player](#) [Real Player](#)